

DELAWARE WATER GAP NATIONAL RECREATION AREA

PUBLIC USE COUNTING AND REPORTING INSTRUCTIONS

Following are detailed instructions for collecting and reporting data to be entered on Form 10-157, Revised, Monthly Public Use Report by Delaware Water Gap National Recreation Area. These instructions are effective the date of issuance and will continue in effect unless changed by amendment or by memorandum from the Socio-Economic Studies Division to the superintendent approving a requested change.

Each item below describes the procedures to be followed in collecting public use data and summarizing the various elements of those data for entry on the corresponding line on the 10-157, Monthly Public Use Report.

Recreation Visits

1. An inductive loop traffic counter is located at the North Contact Station on U.S. 209. The traffic count is multiplied by 0.24.
2. An inductive loop traffic counter is located at the South Contact Station on U.S. 209. The traffic count is multiplied by 0.12.
3. An inductive loop traffic counter (Station 4501 Lanes 7 and 8) is located at the junction of U.S. 209 and PA. Highway 739 on the road leading to Lord's Valley. The traffic count is multiplied by 0.08.
4. An inductive loop traffic counter (Station 4502 Lanes 3 and 4) is located on PA. River Road south of the junction of PA. River Road and Smithfield Beach Road. The traffic count is multiplied by 6.53.
5. An inductive loop traffic counter (Station 4504 Lanes 2 and 3) is located on route 615 at the junction of Peters Valley-Dingmans Road and Route 615. The traffic count is multiplied by - 0.35.
6. An inductive loop traffic counter (Station 4505 Lanes 3 and 4) is located at Blairstown-Millbrook Road at the junction of Blairstown-Millbrook Road and Millbrook-Flatbrook Road. The traffic count is multiplied by 2.72.
7. An inductive loop traffic counter (Station 4506 Lanes 1 and 2) is located on Old Mine Road south of the junction of Worthington Campground Entrance and Old Mine Road. The traffic count is multiplied by 5.52.

Correction factors are used to determine public use at Delaware Water Gap by collecting data at seven major traffic counters in the park. The correction factors were created from a multi variate analysis of traffic counter data based on the results of the 1988 study *Summary of Traffic Characteristics - Delaware Water Gap National Recreation Area*. Analysis included estimates of traffic volumes for each of the 12 months at 22 entrance locations for 1989 using the 1988 study.

September 18, 1990

Actual reported recreation visits were used as a dependent variable. Correction factors include both positive and negative numbers. The final adjustment is the subtraction of 30,275 which is the *intercept* value from the multi variate analysis (see the example in Table 1).

Table 1
Calculation Example from January 1993

Traffic Counter	Counter Readings		Correction Factor	Total Adjusted Visits
4501	66,993 + 16,603	X	0.787970	68,234
4502	8,860 + 8,751	X	6.529457	114,990
4504	5,892 + 5,320	X	-0.351061	-3,936
4505	2,807 + 2,597	X	2.724531	14,723
4506	2,373 + 2,090	X	5.524024	24,654
North Contact Station	33,179	X	0.240786	7,989
South Contact Station	76,425	X	0.120226	9,188
			Intercept	-30,275
			Total Recreation Visitors	205,567

Source: 1988 Survey

Nonrecreation Visits

Nonrecreation visits are the number of nonrecreation vehicles at the north and south contact stations. The vehicle count is multiplied by 3.5 in the months January through March and 1.5 April through December.

Recreation Visitor Hours

1. The total recreation visitors are multiplied by 4.0 hours.
2. The total overnight stays are multiplied by 20 hours.

Nonrecreation Visitor Hours

Nonrecreation visits are multiplied by 0.5 hour.

Overnight Stays

Concessioner Lodging - Digman's Campground

The number of visitors staying overnight as reported by the concessioner.

NPS Backcountry - Canoe campers and Campers on Appalachian Trail

The number of overnight stays by backcountry campers.

NPS Miscellaneous - Hidden Lake and River Bend Group Campgrounds, Youth Hostel, Walpack EEC, Peters Valley, Camp Mohican, and Lone Pine

The number of nights stayed by group campers.

Special Use Data

- Line a. Appalachian Trail (PA)
- Line b. Appalachian Trail (NJ)
- Line c. Canoe Day Use
- Line d. Cane Overnight Use
- Line e. North Contact Station
- Line f. South Contact Station
- Line n. The number of tour buses